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BAINBRIDGE,FLORIDA ECOLOGICAL ATLAS, BIOLOGICAL RESOURCES. . . FWS/OBS-82/47.1, MAP A8. . . UNITED STATES DEPARTMENT OF THE INTERIOR. . . 1984

1 OF 1
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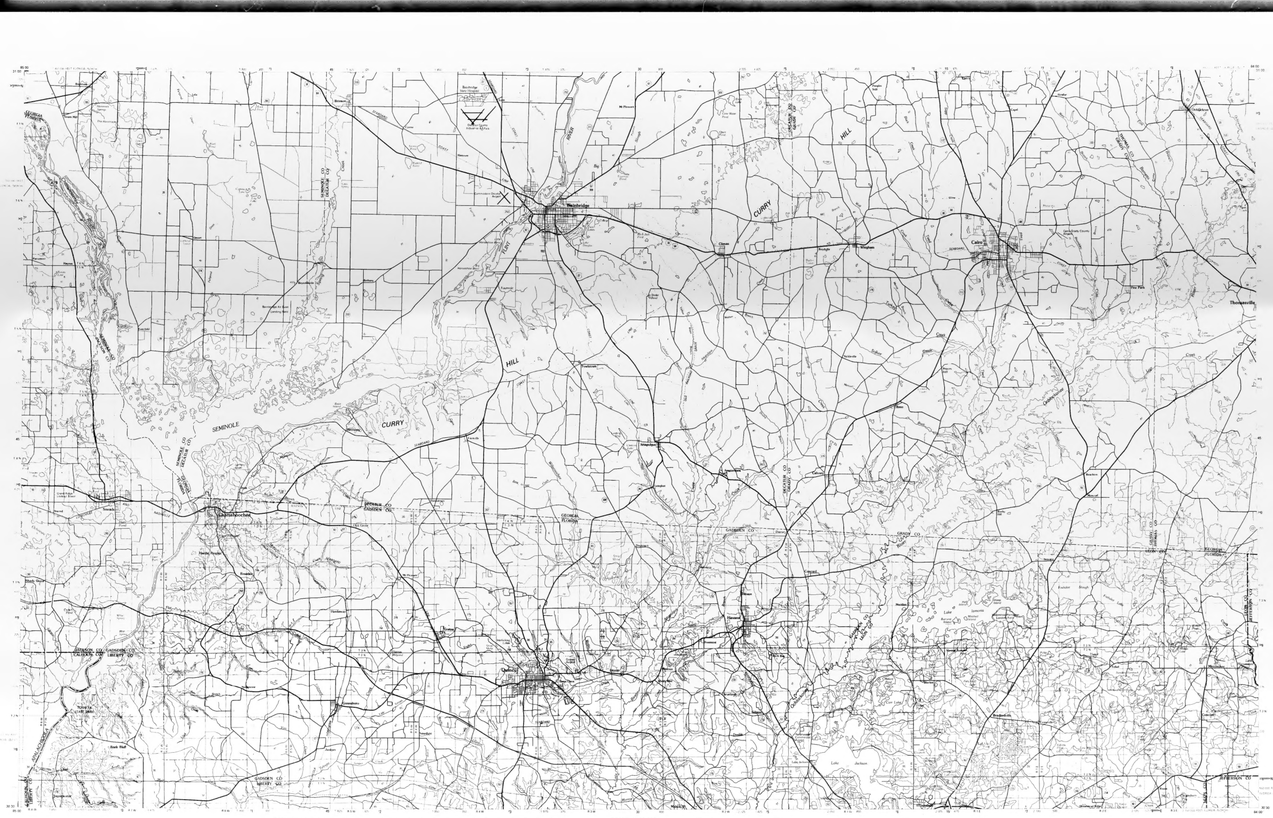
MAP A8



MAP A8

Bainbridge

FLORIDA ECOLOGICAL ATLAS

BIOLOGICAL RESOURCES

ORIGINAL

Scale 1:100 000

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17, Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east zone

Overlay material compiled in 1982 from U.S. Fish and Wildlife Service and Federal, State and Local government agencies and other sources.

MAJOR HABITATS
- Estuarine (saltwater) Tidal Marsh
- Estuarine Scrub/Shrub (Mangrove)
- Palustrine (freshwater) Marsh
- Palustrine Forest
- Seagrass Bed

ARTIFICIAL REEF
(Permitted by Florida Dept. of Environmental Regulation)
Numbers next to reefs refer to companion data in narrative. Reef shapes vary on map.

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

SWA — Shellfish Harvest Area

RMA6 — Shellfish Harvest Conditionally Approved

NOTE: Due to Dept. of Natural Resource (DNR) water quality standards all other occurrence areas are prohibited or restricted for shellfish harvesting. Areas may be officially reopened, the buffer zone reduced or closed by emergency action of DNR. Maintain knowledge by consistent surveys.

- Public Oyster Bed
- Private Oyster Bed (Lease)
- Scallop Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

FINFISH CATEGORY (Common Name)	SPAWNING SEASON	MAJOR NURSERY AREAS (J,F,M,A,M,J,J,A,S,O,N,D)	MAJOR ADULT HABITATS
ESTUARINE DEPENDENT FINFISH			
Red Drum	All		
Spotted Seatrout	All		
Sand Seatrout	All		
Weakfish (Gray Trout)	All		
Atlantic Croaker	All		
Spot	All		
Striped Mullet	All		
Southern Flounder	All		
Tarpon	All		
Estuarine Dependent Forage Species	All		
MARINE FINFISH			
Red Snapper	All		
Gray Snapper	All		
Gag Grouper	All		
Red Grouper	All		
Vermilion Snapper	All		
CENTRAL PELAGIC FISHES			
King Mackerel	All		
Spanish Mackerel	All		

KEY:
S = Estuarine
C = Coastal
CS = Commercial Shelf
SCS = Solar Commercial Shelf

MIGRATION TYPE:
1 = Predominantly Resorvoirial
2 = Resorvoir-Residential Range
3 = Restricted Migratory
4 = Estuarine Migratory

STUDY AREA BOUNDARY

- ********** Offshore
- ---------- Inland (County)
- ---------- Inland (State)

BEST AVAILABLE COPY

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE AND MINERALS MANAGEMENT SERVICE FROM FREE, FREE, BY USE OF THE MINERALS MANAGEMENT SERVICE FOR DIGITAL CARTOGRAPHIC PRODUCTION OF THE MAPS. THE ATLAS CONSISTS OF 5 TOPICAL VOLUMES AND 73 INDIVIDUAL MAPS, AND WERE COMPILED AT A SCALE OF 1:100,000. THE ATLAS COVERS THE ENTIRE COASTAL ZONE OF THE STATE WHILE INCLUDING THE COASTAL COUNTIES: COLUMBIA, BAKER, UNION, BRADFORD, CLAY, DUVAL, NASSAU, ST. JOHNS, PUTNAM, FLAGLER, VOLUSIA, SEMINOLE, ORANGE, OSCEOLA, LAKE, SUMTER, AND HERNANDO. ADDITIONAL INFORMATION ON THE ATLAS MAY BE OBTAINED BY CONTACTING THE OFFICE OF PUBLIC AFFAIRS OR PRODUCTS OF THIS STUDY, CITING THE LIMITS OF PROPRIETARY INFORMATION INVOLVED, AND INTERPRETATIONS OR DECISIONS BASED THEREON. THE CONTENTS AND CONCLUSIONS OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND MODIFIED TO CONFORM WITH THE ATLAS STANDARDS. THE ACCURACY OF ASSOCIATED GEOGRAPHIC FEATURES DEPICTED IS REGULATED AND CHECKED AGAINST THE SOURCE MATERIAL. THE MAP SHOWS THE PRINCIPAL RESOURCES AND OF INTEREST OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

MAJOR HABITATS: National Wetlands Inventory Maps
SHELLFISH AREAS: Florida Dept. of Natural Resources, 1982

ESTUARINE AREAS: National Oceanographic Atl. prod., Navy, Team Bridgeport Co., Inc., Lund Assoc. Inc., 1982
Estuarine Inventory Report, Apalachicola Bay System, U.S. Fish and Wildlife Service, 1985, 85
Estuarine Inventory Report, Choctawhatchee Bay System, U.S. Fish and Wildlife Service, 1984
Estuarine Inventory Report, Pensacola Bay System, U.S. Fish and Wildlife Service, 1984

ARTIFICIAL REEFS: Coastal Planning Section of Florida Department of Natural Resources, Tallahassee, Florida, 1982
Nassau County Artificial Reef Program, 1982

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Florida Dept. of Natural Resources, 1982

PUBLIC & PRIVATE OYSTER BEDS: Compliance Surv of Mexico Resources Inventory and Study, Florida Wildlife, Lundell and Soileau, 1972

SCALLOP BEDS: Personal Communication, Mr. Bill Lyons, Dept. of Natural Resources Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fish and Wildlife Resources, 1976

SENSITIVE PLANT SPECIES: Endangered, Threatened or Rare Species of Florida, Natural Areas Inventory, 1982
Florida Natural Areas Inventory, 1982
Florida Natural Areas Inventory, Tallahassee, Fla., Site Survey, Natural Areas Inventory, Florida Department of Natural Resources, Chapter 16 F-57 and Definitions

BIRD NESTING SITES: Florida Dept. of Natural Resources, Nongame Wildlife Program, Chapter 16 F-57, Sec. 3.04, 16 F-57, Sec. 3.05, and Wildlife Survey, 1982, Florida Audubon Society, 1982, and Dept. of Fish, Game & Fresh Water Fish Commission, 1982

THREATENED & ENDANGERED ANIMALS: Endangered, Threatened or Rare Species of Florida, Fish and Wildlife Service, 1982

Bureau of Marine Turtle Activity in Florida, Vol. A.I., Dept. of Natural Resources, Marine Research Laboratory, 1982
Sea Turtle Nesting Beach Survey, 1971, FL Natural Areas Inventory, 1982
Manatee Aerial Survey, 1982

Manatee Aerial Survey, Florida Power and Light Company, 1982
Manatee Aerial Survey, Florida Power Corporation, West and Central Florida, 1982
Manatee Aerial Survey, Florida Dept. of Natural Resources, 1982

FOR COMPLETE REFERENCES SEE MAP NARRATIVE

SENSITIVE PLANT SPECIES
Endangered, Threatened and Florida Natural Areas Inventory (Rare) Species* appearing with bubble refers to species identification number in legend

Species #	Common Name	Status	Species #	Common Name	Status
1.	Southern cross-vined gentian	T	13.	Smooth-barked St. John's wort	T
2.	Panicum virgatum	T	14.	Godfrey's Sabatia leaf	T
3.	Florida Torreya	E	15.	Florida Yew	E
4.	Cooley weevil	T	16.	Harper's Fern	T
5.	Florida Torreya	E	17.	Florida Torreya	E
6.	Tropical wide-mouth	T	18.	Catesby's magnolia	T
7.	Florida Torreya	E	19.	Florida Torreya	E
8.	Mosquito gentian	T	20.	Tropical Gentian	T
9.	Harper's beauty	T	21.	Florida Sarracenia	T
10.	Harper's beauty	T	22.	Florida Torreya	E
11.	Short-petaled Gentian	T	23.	Scrub	T
12.	Short-petaled Gentian	T	24.	Large-leaved pitcherplant	T
			25.	Woodland Pitcherplant	T
			26.	Florida Torreya	E
			27.	Florida Torreya	E

NOTE: These species are listed as category 2/0 ( ) by the U.S.F.W.S. and as such are considered candidates for listing as threatened or endangered.

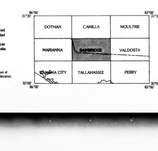
COLONIAL BIRD NESTING SITE
Note: Symbol size does not indicate colony size. Colony sites and species composition data are included in the narrative.

- Shorebird
- Wading Bird
- Brown Pelican

THREATENED AND ENDANGERED ANIMALS
Note: E = Federally Listed Endangered (U.S.F.W.S.)
T = Federally Listed Threatened (U.S.F.W.S.)
e = State Listed Endangered (F.G.F.W.C.)
t = State Listed Endangered (F.G.F.W.C.)
(U.S.F.W.S. = U.S. Fish and Wildlife Service
F.G.F.W.C. = Florida Game and Freshwater Fish Commission)

- West Indian Manatee — E, e
- Brown Pelican (Nesting Colonies) — E, t

- Red-Cockaded Woodpecker (Mapped on township and range basis) — E, t
- Loggerhead Seaturtle (Nesting Beach) — T, t
- Gopher Tortoise (Mapped on site-specific basis) — E, e

Other Threatened and Endangered species are mapped, but excluded in the narrative, are: Florida Panther, Marine Turtles, American Alligator and Eastern Indigo Snake.

GRIDTIC INSET
Shows the relative broad location of species at the time of map publication. For details refer to narrative.